

-3- (WPAT)  
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 TI - Novel stomatological electrode for dental testing - involves connecting contact element with mobile pin and using paraffin, colophony, zinc oxide

as housing insulator  
 DC - D21 S05 P31  
 PA - (STOM=) STOMATOLOGY RES INS  
 IN - CHERTYKOV V N  
 NP - 1  
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 AB - (SU1277950)

Stomatological investigation is conducted by using an electrode comprising an insulating housing and a contact element. Disturbance caused by the electrode sticking to the tooth surface with the thermoplastic mass is reduced and problems which arise because of deviation of the contact element and the wetting of the tooth surface are eliminated, by constructing the element as follows: the housing is constructed with an aperture through which a pin passes, which can move and which is joined to the contact element. The space in the housing is filled with the following electrically insulating formulation (per cent) paraffin 10-15, colophony 20-25, and balance - ZnO.

The electrode comprises contact element (1), pin (2), thermoplastic mass (3), aperture (4) and housing (5) of insulating material. During operation, a layer of electrically conducting paste is applied to contact element (1). Housing (5) is displaced around pin (2) in order that contact element (1) should protrude on the surface of thermoplastic (3). The electrode is clamped to the tooth so that the housing is displaced around pin (2) to the tooth surface on which contact element (1) rests. The thermoplastic then coats the contact element and bonds with the tooth enamel, which secures reliable insulation of the contact element and fixation of the electrode on the region under investigation.

ADVANTAGE - The patented stomatological electrode is so constructed as to eliminate sources of disturbance during dental testing.  
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